



Best Practices Guide

# Amazon OpsWorks and Data Center Connector for AWS

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# Preface

Purpose of this document is to demonstrate how to deploy and configure Security solutions provided by McAfee.

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## About this guide

This information describes the guide's target audience, the typographical conventions and icons used in this guide, and how the guide is organized.

### Audience

McAfee documentation is carefully researched and written for the target audience.

The information in this guide is intended primarily for:

- **Administrators** — People who implement and enforce the company's security program.

### Conventions

This guide uses the following typographical conventions and icons.

<i>Book title or Emphasis</i>	Title of a book, chapter, or topic; introduction of a new term; emphasis.
<b>Bold</b>	Text that is strongly emphasized.
User input, Path, or Code	Commands and other text that the user types; the path of a folder or program; a code sample.
<a href="#">Hypertext</a>	A live link to a topic or to a website.
<b>Note:</b>	Additional information, like an alternate method of accessing an option.
<b>Tip:</b>	Suggestions and recommendations.
<b>Important/Caution:</b>	Valuable advice to protect your computer system, software installation, network, business, or data.
<b>Warning/Danger:</b>	Critical advice to prevent bodily harm when using a hardware product.

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## Find product documentation

McAfee provides the information you need during each phase of product implementation, from installation to daily use and troubleshooting. After a product is released, information about the product is entered into the McAfee online KnowledgeBase.

Go to the McAfee Technical Support ServicePortal at <http://mysupport.mcafee.com>.

Under **Self Service**, access the type of information you need:

To access...	Do this...
User documentation	<ol style="list-style-type: none"><li>1 Click <b>Product Documentation</b>.</li><li>2 Select a <b>Product</b>, then select a <b>Version</b>.</li><li>3 Select a product document.</li></ol>
KnowledgeBase	<ul style="list-style-type: none"><li>▪ Click <b>Search the KnowledgeBase</b> for answers to your product questions.</li><li>▪ Click <b>Browse the KnowledgeBase</b> for articles listed by product and version.</li></ul>

# 1

## Amazon OpsWorks

AWS OpsWorks features an integrated management experience for the entire application lifecycle including resource provisioning, configuration management, application deployment, monitoring, and access control. It works with applications of any level of complexity and is independent of any particular architectural pattern.

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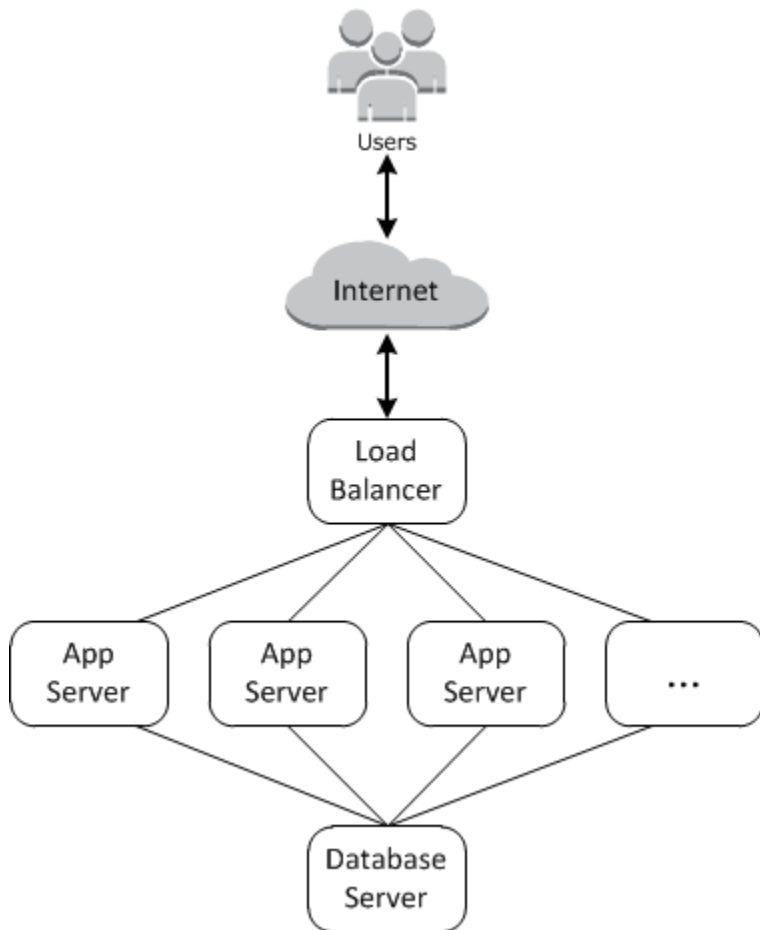
## 1.0 Amazon OpsWorks

Leverage Amazon OpsWorks to Install/configure security solutions offered by McAfee.

EC2 Virtual machine instances from each layer of the application stack can be installed with the security software with the necessary configuration. The instances from these layers can be managed by McAfee ePO and necessary policies can be pushed for each of the instances as per the application layer's requirement.

## Amazon OpsWorks

### 1.0 Amazon OpsWorks



## 1.1 Environment

- Amazon EC2 cloud.
- McAfee ePolicy Orchestrator 5.1.0
- OpsWorks access
- Data Center Connector for AWS.
- McAfee Products
  - McAfee Agent for Linux 4.8.0
  - McAfee Virus Scan Enterprise for Linux 2.0.1
  - McAfee DPC-Linux
  - McAfee Firewall for Linux
- Chef Scripts for installing McAfee Agent and Virus Scan Enterprise for Linux .



- The security groups used by EC2 instances in each layer of the stack should be accessible to McAfee ePO to configure policies for the security products on them.

Note: In this example, we have considered Amazon Linux and Ubuntu 12.04 LTS, supported by OpsWorks.

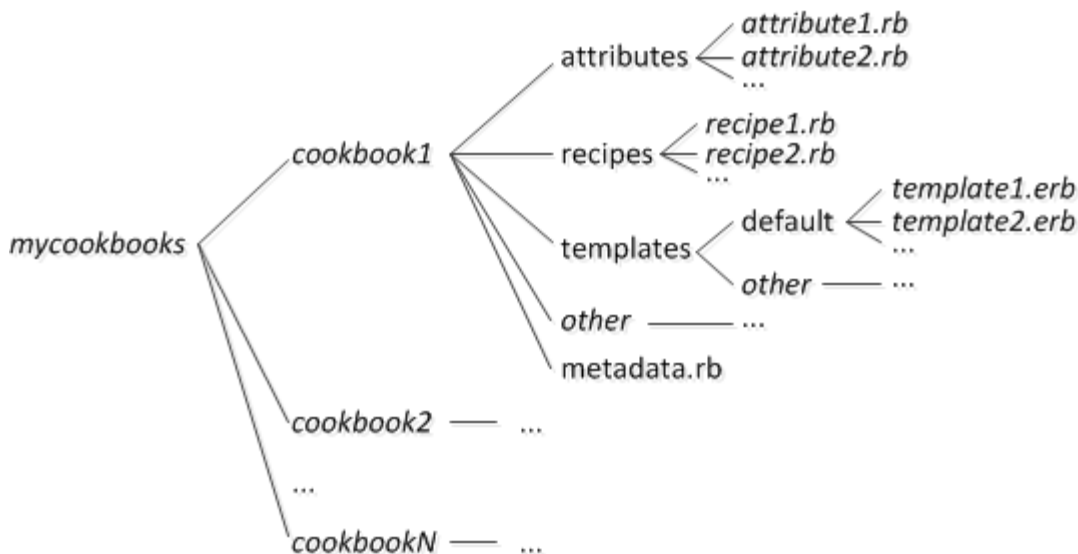
Note: See the Product Guides of McAfee Agent and McAfee Virus Scan Enterprise for Linux for supported kernel versions.

## 1.1.2 McAfee Products Deployment on Linux

### Prerequisite

Upload Chef Scripts and the McAfee product installers onto a S3 bucket.

Note: The hierarchy in the zip file should be as per the Amazon standards for OpsWorks



\*Courtesy: Amazon Inc. ([ref](#))

### 1.1.3 Sample Script to deploy MA and VSEL

The screenshot shows the Amazon OpsWorks console interface. At the top, there's a navigation bar with 'Test', 'Dashboard', 'My Settings', and 'Users'. On the left, a sidebar contains navigation options: Stack, Layers, Instances (highlighted), Time-based, Load-based, Apps, Deployments, Monitoring, Resources (NEW), and Permissions. The main content area is titled 'Instances' and includes a 'Start All Instances' button. A descriptive paragraph explains that an instance represents an EC2 instance. Below the text is a donut chart showing 5 total instances, broken down into: 3 online, 1 launching, 0 shutting down, 1 stopped, and 0 error. Two tables are shown: 'AppServers' and 'Database servers'. The 'AppServers' table has columns for Hostname, Status, Size, Type, AZ, Public IP, and Actions. It lists instances lin1, lin2, lin3, and lin4. The 'Database servers' table has the same columns and lists instance db1.

Hostname	Status	Size	Type	AZ	Public IP	Actions
lin1	online	m1.small	24/7	ap-southeast-1a	54.255.220.36	stop ssh
lin2	online	m1.small	24/7	ap-southeast-1a	54.255.188.161	stop ssh
lin3	stopped	c3.large	24/7	ap-southeast-1a		start delete
lin4	online	m3.medium	24/7	ap-southeast-1a	54.255.211.161	stop ssh

Hostname	Status	Size	Type	AZ	Public IP	Actions
db1	running_setup	m3.medium	24/7	ap-southeast-1a	54.255.224.66	stop ssh

#### Task

1. Create your application stack on Amazon.
2. Add layers to the stack as per your requirement.
3. Add instances to each of the layers as applicable.
4. Under Custom recipes of each layer, configure the repository location to the S3 location of the chef cookbook.
5. Navigate to "Deployments".
6. Choose "Run Command".
7. Under Command, select "Execute Recipes"
8. Enter the recipe to execute in the format `cookbook::recipe`.
9. Click on "Execute Recipes".

Note: Please refer the McAfee Best Practices guide for Chef for more details and reference scripts.